# INDEX TO VOLUME 58

## By SYLVIA L. THOMSSEN

## A

Acanthopneuste borealis kennicotti, 292

Accipiter cooperi, 371

gentilis, 165

striatus, 268, 371

trivirgatus extimus, 285

virgatus confusus, 285

Actitis macularia, 114, 119 Aechmophorus occidentalis, 73, 414

Aegolius acadicus acadicus, 76

Aëronautes saxatalis, 89

Aethopyga flagrans, 290

flagrans guimarasensis, 286, 288, 290

siparaja magnifica, 286

Agelaius phoeniceus, 242, 251, 376

Aldrich, Elmer C., pterlyography and molt of the

Allen hummingbird, 121 Altmann, Stuart A., avian mobbing behavior and

predator recognition, 241 Alvarez del Toro, Miguel, Pitelka, Frank A., and Selander, Robert K., a hybrid jay from

Chiapas, Mexico, 98

Amphiserpentarius, 424

Amphispiza bilineata, 410

Anas blanchardi, 424

consobrinus, 424

discolor, 118

natator, 422

Anhinga, 367

Anous stolidus ridgwayi, 119

Anthus novaeseelandiae lugubris, 285

spinoletta pacificus, 119

Aphelocoma, 56, 101

coerulescens, 20, 250, 446

coerulescens californica, 435

Apus apus, 37, 264

Aracari, Fiery-billed, 203

Aratinga holochroa brevipes, 114, 117, 119

Archaeopsittacus, 424

Archilochus alexandri, 364, 402

Ardea herodias, 118, 379, 429

Arenaria interpres interpres, 119

Asio flammeus, 241, 269, 371, 383

flammeus flammeus, 119

wilsonianus, 76

Asyndesmus lewis, 448

Atlapetes gutturalis brunnescens, 388

Auriparis flaviceps, 410

## В

Balanosphyra formicivora, 91

Balearca, 436

Balicassiao, 289 Bananaquit, 193

Barnard, Gladys C., nesting of the blue-black

grassquit in Panamá, 229

Bartholomew, George A., and Cade, Tom J., water consumption of house finches, 406

Batrachostomus septimus menagei, 285

Behle, William H., a systematic review of the mountain chickadee, 51

Berger, Andrew J., anatomical variation and avian anatomy, 433

Bixler, Isabelle V., blue jay in New Mexico, 239 Blackbird, Brewer, 242, 251

Red-winged, 155, 209, 242, 243, 251

Yellow-headed, 448 Blake, Emmet R., a collection of Panamanian

nests and eggs, 386 Bluebird, Eastern, 93

Mexican, 83, 92, 93

Bleitz, Don, eggs of the California quail in the nest of a spotted towhee, 77; heavy parasitization of blue grosbeaks by cowbirds in California, 236

Bobwhite, 37

Bonasa, 327

Booby, Blue-faced, 111, 112, 118

Blue-footed, 112, 118

Brown, 111, 118

Red-footed, 113, 118

White-bellied, 113, 113

Boreortalis laesslei, 234

Bowman, Robert I., and Miller, Alden H., a fossil magpie from the Pleistocene of Texas, 164

Brachypteryx montana brunneiceps, 285, 287, 288

Branta canadensis, 148

Brattstrom, Bayard H., and Howell, Thomas R., the birds of the Revilla Gigedo Islands, México, 107

Brodkorb, Pierce, two new birds from the Miocene of Florida, 367

Brush-Finch, Yellow-throated, 388

Bubo virginianus, 241, 371

Bunting, Rustic, 235

Bush-tit, 83, 90, 244, 250

Buss, Irvin O., an unusual record of the lesser yellow-legs in the Pacific Ocean, 238

Buteo albonotatus, 90

jamaicensis, 10, 88, 371, 401

jamaicensis socorroensis, 113, 118

lagopus, 274, 371

platypterus, 371

Island, 78

## C

Cacomantis variolosus sepulcralis, 285, 287

Cade, Tom J., and Bartholomew, George A.,

water consumption of house finches, 406 Cade, Tom J., and Howell, Thomas R., additional data on the birds of Guadalupe

# INDEX TO VOLUME 58

## By SYLVIA L. THOMSSEN

## A

Acanthopneuste borealis kennicotti, 292

Accipiter cooperi, 371

gentilis, 165

striatus, 268, 371

trivirgatus extimus, 285

virgatus confusus, 285

Actitis macularia, 114, 119 Aechmophorus occidentalis, 73, 414

Aegolius acadicus acadicus, 76

Aëronautes saxatalis, 89

Aethopyga flagrans, 290

flagrans guimarasensis, 286, 288, 290

siparaja magnifica, 286

Agelaius phoeniceus, 242, 251, 376

Aldrich, Elmer C., pterlyography and molt of the

Allen hummingbird, 121 Altmann, Stuart A., avian mobbing behavior and

predator recognition, 241 Alvarez del Toro, Miguel, Pitelka, Frank A., and Selander, Robert K., a hybrid jay from

Chiapas, Mexico, 98

Amphiserpentarius, 424

Amphispiza bilineata, 410

Anas blanchardi, 424

consobrinus, 424

discolor, 118

natator, 422

Anhinga, 367

Anous stolidus ridgwayi, 119

Anthus novaeseelandiae lugubris, 285

spinoletta pacificus, 119

Aphelocoma, 56, 101

coerulescens, 20, 250, 446

coerulescens californica, 435

Apus apus, 37, 264

Aracari, Fiery-billed, 203

Aratinga holochroa brevipes, 114, 117, 119

Archaeopsittacus, 424

Archilochus alexandri, 364, 402

Ardea herodias, 118, 379, 429

Arenaria interpres interpres, 119

Asio flammeus, 241, 269, 371, 383

flammeus flammeus, 119

wilsonianus, 76

Asyndesmus lewis, 448

Atlapetes gutturalis brunnescens, 388

Auriparis flaviceps, 410

## В

Balanosphyra formicivora, 91

Balearca, 436

Balicassiao, 289 Bananaquit, 193

Barnard, Gladys C., nesting of the blue-black

grassquit in Panamá, 229

Bartholomew, George A., and Cade, Tom J., water consumption of house finches, 406

Batrachostomus septimus menagei, 285

Behle, William H., a systematic review of the mountain chickadee, 51

Berger, Andrew J., anatomical variation and avian anatomy, 433

Bixler, Isabelle V., blue jay in New Mexico, 239 Blackbird, Brewer, 242, 251

Red-winged, 155, 209, 242, 243, 251

Yellow-headed, 448 Blake, Emmet R., a collection of Panamanian

nests and eggs, 386 Bluebird, Eastern, 93

Mexican, 83, 92, 93

Bleitz, Don, eggs of the California quail in the nest of a spotted towhee, 77; heavy parasitization of blue grosbeaks by cowbirds in California, 236

Bobwhite, 37

Bonasa, 327

Booby, Blue-faced, 111, 112, 118

Blue-footed, 112, 118

Brown, 111, 118

Red-footed, 113, 118

White-bellied, 113, 113

Boreortalis laesslei, 234

Bowman, Robert I., and Miller, Alden H., a fossil magpie from the Pleistocene of Texas, 164

Brachypteryx montana brunneiceps, 285, 287, 288

Branta canadensis, 148

Brattstrom, Bayard H., and Howell, Thomas R., the birds of the Revilla Gigedo Islands, México, 107

Brodkorb, Pierce, two new birds from the Miocene of Florida, 367

Brush-Finch, Yellow-throated, 388

Bubo virginianus, 241, 371

Bunting, Rustic, 235

Bush-tit, 83, 90, 244, 250

Buss, Irvin O., an unusual record of the lesser yellow-legs in the Pacific Ocean, 238

Buteo albonotatus, 90

jamaicensis, 10, 88, 371, 401

jamaicensis socorroensis, 113, 118

lagopus, 274, 371

platypterus, 371

Island, 78

## C

Cacomantis variolosus sepulcralis, 285, 287

Cade, Tom J., and Bartholomew, George A.,

water consumption of house finches, 406 Cade, Tom J., and Howell, Thomas R., additional data on the birds of Guadalupe Calocitta formosa, 98-105 formosa colliei, 98 formosa formosa, 98

Calothorax lucifer, 355

Calypte anna, 125, 163, 242, 250, 342, 345, 347, 353-366, 394-405

costae, 250

Canachitis, 327 franklini, 329

Caprimulgus carolinensis, 71

macrurus, 122 rufus, 71 rufus minimus, 71 vociferus, 71

Cardiff, Eugene A., additional records for the Imperial Valley and Salton Sea area of California, 447

Cardellina rubrifrons, 88

Carpodacus cassinii, 9 mexicanus, 19, 90, 117, 244, 252, 340, 401, 406–412

purpureus, 146

Casmerodius albus, 429 Castle-builder, Slaty, 189

Cathird, 437 Cathartes, 437 aura, 90

Catharus aurantiirostris russatus, 388

Catherpes mexicanus, 91

Catoptrophorus semipalmatus inornatus, 119, 449

Centrocercus, 327 Centropus viridis, 289

viridis viridis, 285 Ceophloeus pileatus, 122

Certhia familiaris, 93, 94, 250 familiaris albescens, 94 familiaris montana, 94

Ceryle alcyon, 114, 119 Chachalaca, Guianan, 293

Chachalaca, Guianan, 29. Chaetura gigantea, 286

pelagica, 185 picina, 286

Chalcites, 436 Chalcophaps indica indica, 285

Chamaea fasciata, 176, 242, 251, 263

Chapelle, F. O., the voice and habitat of the rufous nightjar in the Panamá Canal Zone, 71

Charadrius hiaticula semiplamatus, 119

Chatwin, S. Larry, the western grebe taken on hook and line, 73

Chickadee, Chestnut-backed, 172, 176, 401 Mountain, 51-69, 83, 93, 97, 250

Chordeiles minor, 74, 93 minor hesperis, 76

Chrysococcyx cupreus, 437, 438

Chrysocolaptes lucidus xanthocephalus, 285, 288

Chrysolampis moschitus, 345 Chuck-will's-widow, 71, 72

Cinclus mexicanus, 74

Circus cyaneus, 268, 371

Cissilopha san-blasiana, 100 Cisticola exilis rustica, 285

Cittocincla nigrorum, 285

Claravis pretiosa, 188

Coccyzus, 437

americanus, 438

erythropthalmus, 438 Coereba flaveola, 193

Colaptes auratus, 376

cafer, 10, 92, 250, 446

Coleto, 291

Colibri thalassinus, 357

Colinus virginianus, 37, 176

Collocalia esculenta marginata, 285, 287, 288 troglodytes, 286

Columba flavirostris, 189

livia, 376 nigrirostris, 189

speciosa, 191

Columbigallina minuta, 189, 196

passerina, 188

passerina socorroensis, 114, 119

talpacoti, 188, 203

Colymboides, 413-426 anglicus, 414, 417, 421, 423, 425, 426

minutus, 413-426

Colymbus, 417 Colymbus caspicus californicus, 78

Condor, California, 80, 389 Contopus pertinax, 88

richardsonii, 250 Copsychus luzoniensis superciliaris, 285

saularis mindanensis, 285 Coracina ostenta, 285, 287 striata panayensis, 285, 288

Cormorant, Double-crested, 118

Corvus brachyrhynchos, 5, 376 corax, 88, 165, 274

corax clarionensis, 114, 116, 119 macrorhynchus philippinus, 286, 288

macrorhynchus philippinus, 286, 2 Coua caerulea, 438

Coucal, Philippine, 289 Cowbird, 29, 120, 252, 376

Brown-headed, 236, 237 Crane, Sandhill, 436

Whooping, 429, 435, 436

Crax rubra, 235 Creeper, 83, 93, 97

Brown, 84, 250 Plain-headed, 290

Crocethia alba, 119 Crossbill, Red, 76, 77

Crotophaga, 437 sulcirostris, 438

Crow, 5

American, 376, 381

Cuculus fugax pectoralis, 285, 288

Culicicapa helianthea panayensis, 286, 288

Curlew, Hudsonian, 114, 119, 449

Cyanocitta cristata, 239 stelleri, 9 Cyanocorax, 100, 435 dickeyi, 98 yncas, 101 Cygnus buccinator, 444 Cypselus, 435 Cyrtonyx montezumae, 93

## D

Dabchick, 414
Dales, Loring, mobbing of an attacking scrub jay
by a mockingbird and a red-shafted flicker, 446

Dalquest, Walter W., white-winged scoter in Texas, 165

Dendragapus, 321–337 fuliginosus, 321–337 fuliginosus fuliginosus, 326, 327, 329 fuliginosus howardi, 75, 76 fuliginosus sierrae, 75, 76, 329 obscurus, 262, 321–337 obscurus obscurus, 328 obscurus pallidus, 321, 323, 327 obscurus richardsoni, 326, 329 Dendrocopos arizonae, 91 maculatus maculatus, 285

scalaris cactophilus, 450 villosus, 10, 92 Dendroica auduboni, 92, 242, 251, 401

castanea, 116, 120 graciae, 91 occidentalis, 251, 451 palmarum, 166 petechia, 251

Dicaeum agile aeruginosum, 286, 288 bicolor inexpectatum, 286, 288 ignipectus apo, 288, 290 ignipectus luzoniense, 290 papuense haematostictum, 286 pygmaeum pygmaeum, 286, 288 trigonostigma dorsale, 286, 288

Dicrurus balicassius mirabilis, 288, 289
Dixon, James B., Clark nutcrackers preying on ground squirrels and chipmunks, 386

Dixon, James B., and Quigley, Ray, photograph of Clark Nutcracker, 442

Dixon, Keith L., territoriality and survival in the plain titmouse, 169

Dixon, Keith L., and Wallmo, O. C., some new bird records from Brewster County, Texas, 166

Dove, Amethyst Brown Fruit, 289
Blue Ground, 188, 189, 191, 192, 195, 201, 204
Chinese Spotted, 250
Common Ground, 188, 189
Ground, 114, 119
Mourning, 114, 117, 119, 250, 389, 446
Philippine Turtle, 289

Plain-breasted Ground, 189

Ruddy Ground, 188–203, 204
Slender-billed Cuckoo, 289
Socorro, 114, 117, 119
Talpacoti Ground, 188
White-tipped, 189, 192, 201
White-winged, 82
Yellow-breasted Fruit, 289
Dowitcher, Short-billed, 238
Dryocopus pileatus, 74
Duck, King Eider, 168
Pintail, 240
Ducula carola nigrorum, 285, 287, 288
poliocephala nobilis, 290
poliocephala poliocephala, 285, 288, 290
Dumetella carolinensis, 437

Rock, 376, 381

## E

Eagle, Golden, 381 Eckelberry, Don R., painting of olive warbler, opp. 81 Egret, American, 429, 431 Snowy, 113, 118, 429, 431 Egretta thula, 429 Eisenmann, Eugene, Galapagos penquin in Panamá, 74 Elaenia, Dusky, 387 Lesser, 387 Elaenia chiriquensis chiriquensis, 387 obscura frantzii, 387 Emberiza rustica, 235 Empidonax difficilis, 90, 250 difficilis difficilis, 76, 450 flavescens flavescens, 387 fulvifrons, 89 Ereunetes mauri, 114, 119 Erithacus rubecula, 172, 244 Erolia minutilla, 114, 119 Eugenes fulgens, 166, 355 Euphagus cyanocephalus, 242, 251 Euphonia, Blue-hooded, 388 Eurystomus orientalis orientalis, 285

## F

Falco albigularis, 245 columbarius, 268, 447 peregrinus, 88, 114, 118, 268, 274, 287 sparverius, 268, 371, 401, 410, 411 Falcon, Bat, 245 Peregrine, 82, 88, 114, 118, 268 Prairie, 240 Black Rosy, 451 Gray-crowned Rosy, 451 Fantail, Blue-headed, 289 Finch, Black Rosy, 451 Gray-crowned Rosy, 451 House, 83, 90, 117, 244, 252, 340, 401, 406-412 Purple, 146 Fisher, Charles D., palm warbler at Point Reyes, California, 166

Yellow-shafted, 376, 381 Flowerpecker, Fire-throated, 290 Flycatcher, Ash-throated, 83 Buff-breasted, 83, 89, 90 Olivaceous, 93 Olive-sided, 76 Pied, 265 Scissor-tailed, 72, 168 Sulphur-bellied, 93 Thicket, 289 Vermilion, 240 Westermann, 289 Western, 76, 83, 90, 92, 250, 450 Yellowish, 387 Fox, Wade, Jr., pileated woodpecker south of the Sierra Nevada in California, 74

Flicker, Red-shafted, 10, 17, 83, 92, 250, 446

Fregata minor palmerstoni, 110, 113, 118 Frigate-bird, 110 Lesser, 113, 118 Fulmar, 143, 152, 155, 206, 208, 213

Fulmarus glacialis, 143, 213 Gallinuloides wyomingensis, 235 Gallus gallus, 286 Gannet, 213 Gavia, 414, 417, 420, 422, 425 adamsi, 414, 415 arctica, 414 concina, 425 howardae, 425 immer, 414, 415, 420, 425 palaeodytes, 425 portisi, 425 stellata, 414, 415, 425 Gaviella pusilla, 420, 425 Geococcyx, 437 californianus, 438 Geothlypis trichas occidentalis, 76 Ghiselin, Jon, a transitorily albinistic robin produces normal offspring, 235 Glaucidium gnoma, 10, 93, 241 gnoma californicum, 449 Gnatcatcher, Blue-gray, 83, 91, 295 Godwit, Marbled, 449 Goldfinch, American, 448 Arkansas, 83, 90 Goose, Canada, 148 Emperor, 168, 240 White-fronted, 240

Goshawk, 165 Grackle, 381 Grassquit, Blue-black, 229-231

Grayson, Andrew Jackson, painting of Wagler oriole, opp. 393

Grebe, Eared, 78, 414 Great Crested, 414 Horned, 414 Least, 414 Pied-billed, 414, 423

Red-necked, 414 Western, 73, 74, 414 Grosbeak, Black-headed, 83, 252, 447 Blue, 236, 237 Evening, 83 Rose-breasted, 447 Grouse, Blue, 321, 322, 325-329, 331, 332 Dusky, 321, 326, 327, 332 Ruffed, 329 Sharp-tailed, 329 Sooty, 75, 262, 321-332 Grus americana, 433, 436, canadensis tabida, 436 leucogeranus, 436 Guiraca caerulea, 236, 237 Gull, Black-headed, 145, 213, 218 California, 74, 134-160, 206-221, 390 Franklin, 80 Glaucous, 274, 282, 390

Glaucous-winged, 159 Heermann, 119 Herring, 138, 145, 153, 213, 215, 216, 274, 282 Little, 213 Western, 119

Gullion, Gordon W., an ancient murrelet in northeastern Nevada, 163; evidence of double-brooding in Gambel quail, 232; the current status of the starling in Nevada,

Gullion, Gordon W., and Hoskins, Leonard W., noteworthy bird records from northeastern Nevada, 295 Gygis alba, 119

Gymnorhinus cyanocephalus, 238, 239

Haematopus ostralegus frazari, 119 Halcyon chloris collaris, 285 lindsayi moseleyi, 285 smyrnensis gularis, 285 Hartman, Frank A., a nest of the striped horned owl, 73 Haverschmidt, F., notes on a nest of the Guianan chachalaca, 293 Hawk, Broad-winged, 371 Cooper, 82, 86, 371, 379 Duck, 240 Harris, 166, 449 Marsh, 266, 268, 269, 271, 371

Pigeon, 447 Red-tailed, 10, 82, 88, 89, 113, 118, 371-384, Rough-legged, 274, 277, 282, 371, 372 Sharp-shinned, 268, 371 Sparrow, 268, 371, 401, 410 Zone-tailed, 82, 90 Hemiprocne comata major, 285 Hermit, Green, 386 Heron, Great Blue, 118, 379, 429, 431 Yellow-crowned Night, 113, 116, 118

Heteroscelus incanus, 119

Himantopus mexicanus, 114, 119, 429, 447

Hirundo rustica erythrogaster, 114, 119

Hoffmann, Robert S., observations on a sooty grouse population at Sage Hen Creek, California, 321

Hornbill, Tarictic, 289

Hoskins, Leonard W., and Gullion, Gordon W., noteworthy bird records from northeastern Nevada, 295

Howell, Thomas R., and Brattstrom, Bayard, H., the birds of the Revilla Gigedo Islands, México, 107

Howell, Thomas R., and Cade, Tom J., additional data on the birds of Guadalupe Island,

Hubbs, Carl L., off-season, southern occurrence of the black scoter on the Pacific coast, 448

Hudson, George E., breeding of the short-billed dowitcher on the Copper River Flats, Alaska, 238

Hummingbird, Allen, 121-132, 250, 344, 394-405 Anna, 163, 242, 244, 247, 250, 342-366, 394-405

Black-chinned, 82, 364, 402 Blue-throated, 93, 166

Broad-tailed, 82, 84, 88

Calliope, 76, 250

Costa, 84, 250

Giant, 121, 122

Rivoli, 83, 166

Scintillant, 386

Violet-eared, 357, 364

White-eared, 363, 364

Hydrornis natator, 422, 423, 426

Hylocharis leucotis, 363

Hylocichla guttata, 88

guttata guttata, 450

guttata slevini, 450

ustulata, 251

Ibis, Glossy, 113, 118 Wood, 427-432

Icterus galbula, 166, 188

parisorum, 452

wagleri, opp. 393, 453

Jay, Arizona, 83, 86

Blue, 239

Brown, 100, 102, 103, 105

Green, 101 Piñon, 238-240

Scrub, 83, 91, 239, 250, 446

Steller, 83, 239

Jaeger, Parasitic, 279

Pomarine, 213, 274, 383

Johnson, Ned K., recent bird records for Nevada, 449

Johnston, David W., the annual reproductive cycle of the California gull. I. criteria of age and the testis cycle, 134; the annual reproductive cycle of the California gull. II. histology and female reproductive system, 206

Johnston, David W., and Norris, Robert A., observations on red crossbills in Marin County, California, 77

Johnston, Richard F., population structure in salt marsh song sparrows. Part I. environment and annual cycle, 24; the incubation period of the clapper rail, 166; population structure in salt marsh song sparrows. Part II. density, age structure, and maintenance, 254

Jordan, Peter A., piñon jays west of the Sierra Nevadan divide in California, 238

Junco, Gray-headed, 77, 448

Oregon, 155, 157, 160, 209, 338, 340, 448 Slate-colored, 295, 338, 340, 448

Yellow-eyed, 83, 90, 92 Junco caniceps caniceps, 77, 448

hyemalis, 295, 338, 411

hyemalis cismontanus, 448

oreganus, 9, 338

oreganus mearnsi, 448

oreganus thurberi, 77

phaeonotus, 92

Kelly, Junea W., prolonged incubation by an Anna hummingbird, 163

Kuhlman, Frank, and Orians, Gordon, red-tailed hawk and horned owl populations in Wisconsin, 371

Kestrel, American, 410

Kingbird, Tropical, 163

Kingfisher, Belted, 114, 119

Kinglet, Golden-crowned, 76, 93, 251, 389, 450

Kincaid, Edgar, and Prasil, Richard, cave swallow colony in New Mexico, 452

Kite, White-tailed, 238

Kittiwake, 213

Knot, 80

# L

Labarthe, Warren, a northern nesting station for the white-tailed kite, 238

Lagopus leucurus, 328

mutus, 280

Lampornis clemenciae, 93, 166

Lampromorpha, 437

caprius, 438

klaas, 438

Lanius cristatus, 286

excubitor, 295

ludovicianus, 122, 295

Larus argentatus, 138, 145, 152, 213, 274

californicus, 74, 134-160, 206-221, 429

canus, 152

desnoyeri, 424 elegans, 424

glaucescens, 159

heermanni, 119, 429

hyperboreus, 274, 390 minutus, 213 occidentalis, 119 ridibundus, 145, 152, 213, 218 totanoides, 424

Legg, Ken, a sea-cave nest of the black swift, 183 Legg, Ken, and Pitelka, Frank A., ecologic overlap of Allen and Anna hummingbirds nest-

ing at Santa Cruz, California, 393 Leptotila verreauxi, 189 Leucophoyx thula, 113, 118 Leucosticte atrata, 451 tephrocotis dawsoni, 451 tephrocotis wallowa, 451 Leucotreron occipitalis brevipes, 289 occipitalis incognitus, 289 occipitalis occipitalis, 285, 288, 289 Limnodromus griseus caurinus, 238 Locustella fasciolata, 285 Lonchura ferruginosa jagori, 286, 288 leucogaster everetti, 286 Loon, Arctic, 414

Common, 414, 421, 425 Yellow-billed, 414 Red-throated, 414, 425 Lophortyx californicus, 77 gambelii, 232, 409, 411 Loriculus philippensis regulus, 285 Loxia curvirostra, 9, 77 curvirostra grinnelli, 76, 77 curvirostra sitkensis, 77

## M

Macropygia phasianella, 289 phasianella tenuirostris, 285, 287, 288 Magpie, 164 American, 6

Magpie-jay, 98, 100, 102, 103, 105 Major, James C., and Odum, Eugene P., the effect of diet on photoperiod-induced lipid deposition in the white-throated sparrow, 222

Mall, Rolf E., another record of the tropical kingbird for California, 163

Mall, Rolf E., and Yokum, Charles F., whitethroated sparrow in Humboldt County, California, 75

Mareca penelope, 390

Marshall, Joe T., Jr., summer birds of the Rincon Mountains, Saguaro National Monument, Arizona, 81

Meadowlark, 376, 381

Medina, Don R., and Moore, Robert T., additional unrecorded specimens of Neochloe brevipennis from Oaxaca, México, 442

Megalaema haemacephala intermedia, 288 Megalurus timoriensis tweeddalei, 285 Megapodius freycinet pusillus, 285 Melanitta fusca, 165

Meleagris gallopavo, 93

Melospiza melodia, 24, 252, 254 melodia pusillula, 36, 270 melodia samuelis, 24, 32, 36, 270

Merlin, 268

Mewaldt, L. Richard, nesting behavior of the Clark nutcracker, 3

Micrathene whitneyi graysoni, 117, 119 Micropalama himantopus, 447

Micropus apus, 185

Microscelis philippensis guimarasensis, 285-288 Miller, Alden H., northwestward vagrancy of the Scott Oriole, 452

Miller, Alden H., and Bowman, Robert I., a fossil magpie from the Pleistocene of Texas,

Miller, Alden H., and Russell, Ward C., distributional data on the birds of the White Mountains of California and Nevada, 75

Mimodes graysoni, 115-117, 119 Mimus polyglottos, 119, 251, 446

Mitu mitu, 235

Mockingbird, 119, 251, 446

Molothrus ater, 29, 120, 236, 252, 376

Monson, Melvin A., nesting of trumpeter swan in the lower Copper River Basin, Alaska, 444

Monticola solitaria philippensis, 285

Moore, Robert T., and Medina, Don R., additional unrecorded specimens of Neochloe brevipennis from Oaxaca, México, 442

Moris bassana, 213

Motacilla cinerea cinerea, 285

flava simillima, 285

Murie, Adolph, nesting records of the arctic willow warbler in Mount McKinley National Park, Alaska, 292

Murrelet, Ancient, 163

Muscicapa griseisticta, 286

hyperythra, 289

hyperythra nigrorum, 286-288

hypoleuca, 42, 265

panayensis panayensis, 286, 288

westermanni, 289

westermanni rabori, 286, 287

Muscivora forficata, 72

Myadestes ralloides melanops, 387, 388

townsendi townsendi, 76 Mycteria americana, 427-432

Myiarchus tuberculifer, 93

Myiodynastes luteiventris, 93

Neochloe brevipennis brevipennis, 442, 443 brevipennis browni, 442, 443 Nephoecetes niger, 183

Nighthawk, 74, 93

Booming, 76

Nightingale-Thrush, Orange-billed, 388 Nightjar, Rufous, 71, 72

Ninox philippensis, 286

scutulata randi, 285

Noddy, Brown, 119

Norris, Robert A., and Johnston, David W., observations on red crossbills in Marin County, California, 77

Nucifraga caryocatactes, 3

caryocatactes caryocatactes, 3 caryocatactes macrorhynchos, 3

columbiana, 3-21, 250, 386, 442 Numenius phaeopus hudsonicus, 114, 119

Nutcracker, Clark, 3-21, 80, 168, 250, 386, 442 Slender-billed, 3 Thick-billed, 3, 5-9, 11, 14, 15, 17, 19

Nuthatch, Pigmy, 76, 83, 89, 92

Red-breasted, 76, 93

White-breasted, 83, 92 Nuttallornis borealis, 76

Nyctanassa violacea gravirostris, 113, 118

Nyctidromus albicollis, 72

Nyctea scandiaca, 273, 383

## 0

Oakeson, Barbara Blanchard, liver and spleen weight cycles in non-migratory whitecrowned sparrows, 45

Oceanodroma leucorhoa socorroensis, 116, 118 macrodactyla, 78

Odum, Eugene P., and Major, James C., the effect of diet on photoperiod-induced lipid deposition in the white-throated sparrow,

Oedicnemus, 436 Oidemia nigra, 448

Opisthocomus, 436

Oporornis tolmiei tolmiei, 76 Oreopeleia linearis chiriquensis, 386

montana, 196 Oriole, Baltimore, 166, 188

Scott, 83, 452

Wagleri, opp. 393, 453

Orians, Gordon, and Kuhlman, Frank, red-tailed hawk and horned owl populations in Wisconsin. 371

Oriolus xanthonotus steerei, 286, 288

Ortalis canicollis, 235

motmot, 293

phengites, 234 pollicaris, 234

tantala, 234

vetula, 234, 235

Orthotomus atrogularis, 289 atrogularis castaneiceps, 286, 288

Osprey, 78, 113, 118

Otus asio, 90, 241, 371, 401, 410, 411

flammeolus, 89

Ouzel, Water, 74

Owl, Barred, 273

Burrowing, 114, 119, 241, 250-252

Elf. 82, 117, 119

Flammulated, 89

Great Gray, 80

Horned, 241, 245, 251, 252, 371-384

Long-eared, 76

Pygmy, 10, 17, 93, 241, 244, 250-252, 449, 450

Saw-whet, 76

Scops, 82, 89

Screech, 82, 90, 241-245, 247, 250-252, 371, 381, 401, 410

Short-eared, 119, 241, 250, 252, 266, 269, 271,

371, 383

Snowy, 273-282, 383 Spotted, 82, 88, 90

Spotted Screech, 82

Striped Horned, 73

Tawny, 380

Oystercatcher, 119

Pachycephala plateni winchelli, 286, 287

Palaeoaramides, 424

Palaeogrus, 424

Palaeonossax senectus, 234

Paloelodus, 424

Pandion haliaetus carolinensis, 78, 113, 118

Parabuteo unicinctus, 166, 449

Parakeet, Green, 114, 119

Paraortygometra, 424

Paratrogon, 424

Parmelee, David E., and Sutton, George M., breeding of the snowy owl in southeastern Baffin Island, 273

Parula pitiayumi graysoni, 116, 117, 119

Parus atricapillus, 9, 53

caeruleus, 179, 244, 255

elegans, 289

elegans visayanus, 286-288

gambeli, 9, 51-70, 93, 250

gambeli abbreviatus, 52-69

gambeli atratus, 52-57, 64, 65, 68, 69 gambeli baileyae, 52-57, 59, 61, 63-65, 68, 69

gambeli gambeli, 53-61, 67-69

gambeli grinnelli, 52-63, 66-69

gambeli inyoensis, 52-57, 60, 61, 63, 65-69

gambeli wasatchensis, 52-60, 65, 67-69

inornatus, 169, 176, 178-180

major, 31, 172, 176, 255

montanus, 52

palustris, 173

rufescens, 172, 401

Passer domesticus, 32, 145, 216, 251, 409, 411

Passerculus sandwichensis, 30, 252

Passerella iliaca, 411, 448

iliaca fulva, 451

iliaca megarhynchus, 448

iliaca olivacea, 452

iliaca schistacea, 448

iliaca sinuosa, 452 iliaca unalaschensis, 451

Patagona gigas, 121, 122, 345

Pauraque, 72

Pedioecetes, 327
Pelecanus occidentalis cali

Pelecanus occidentalis californicus, 112, 118

Penelope purpurascens, 235 superciliaris, 235

Pelican, Brown, 112, 118 Penelopides panini, 289

panini panini, 285 Penguin, Galapagos, 74, 75

Penthestes atricapillus, 53

gambeli, 52 gambeli abbreviatus, 61, 64

gambeli baileyae, 64 Penthestes gambeli grinnelli, 59

Penthestes gambeli grinnelli, 5 gambeli inyoensis, 65

Peregrine, 274, 279, 282

Pericrocotus flammeus novus, 285

Pernis celebensis steerei, 285

Petrel, Ashy, 79 Guadalupe, 78

Leach, 118

Petrochelidon fulva pallida, 452

Peucedramus taeniatus, opp. 81, 88 Pewee, Coues, 83, 88, 92

Western Wood, 83 Phaëthon, 436

aethereus mesonauta, 112, 118

Phaethornis guy coruscus, 386 Phalacrocorax auritus albociliatus, 118

destefani, 367, 368 femoralis, 367, 368

gregorii, 367, 368

idahensis, 367, 368 intermedius, 367, 368

kennelli, 367, 368

littoralis, 367, 368 macropus, 367, 368

marinavis, 367, 368

mediterraneus, 367, 368

miocaenus, 367, 368

pampeanus, 367 praecarbo, 367, 368

subvolans, 367, 368

rogersi, 367, 368 vetustus, 367, 368

wetmorei, 367

Phalaenoptilus nuttallii, 122 nuttallii nuttallii, 448

Phalarope, Red, 447

Phalaropus fulicarius, 447

Phapitreron amethystina, 289

amethystina maculipectus, 285, 288 leucotis nigrorum, 285, 288

leucotis ingrorum, 205,

Phasianus colchicus, 376

Pheasant, Ring-necked, 149, 155, 157, 158, 218, 376, 381, 382, 384

Pheucticus ludovicianus, 447

melanocephalus, 252, 411 Phoebe, Black, 83, 86, 250, 450

Phoenicopterus, 424

Phoenicurus phoenicurus, 42

Phylloscopus borealis, 289

borealis kennicotti, 286, 287, 290

cebuensis, 286-288

trivirgatus, 289

trivirgatus nigrorum, 286-288

Pica pica, 9, 164, 165 pica hudsonica, 164

pica japonica, 164 nuttallii, 164, 165

Pigeon, Band-tailed, 82

Pink-bellied Imperial, 290 Red-billed, 189, 191, 201

Scaled, 191, 201 Short-billed, 189, 191

Pipilo aberti, 411

erythrophthalmus, 91, 178

erythrophthalmus socorroensis, 116, 119

fuscus, 178, 242, 252, 411 maculatus, 77, 252, 411

maculatus megalonyx, 448

Pipit, Water, 119

Piranga bidentata sanguinolenta, 388

flava, 88

ludoviciana, 88, 388

Pitelka, Frank A., and Legg, Ken, ecologic overlap of Allen and Anna hummingbirds nesting at Santa Cruz, California, 393

Pítelka, Frank A., Selander, Robert K., and Alvarez del Toro, Miguel, a hybrid jay from Chiapas, México, 98

Plegadis falcinellus mexicana, 113, 118

Plover, Black-bellied, 447

Golden, 119

Semipalmated, 119

Pluvialis dominica fulva, 119

Podiceps auritus, 414

caspicus, 414

cristatus, 414, 415

dominicus, 414, 415

grisegena, 414

ruficollis, 414

Podilymbus podiceps, 414-416, 420, 422

Polioptila caerulea, 295

Poor-will, 82, 448

Prioniturus discurus whiteheadi, 285, 288

Prasil, Richard, and Kincaid, Edgar, cave swallow colony in New Mexico, 452

Probalearica, 424

Proictinia effera, 368, 369 floridana, 368, 369

gilmorei, 369

Psaltriparus minimus, 90, 244, 250

Psilorhinus mexicanus, 98-105

Ptarmigan, Rock, 280

White-tailed, 328

Pteroglossus frantzii, 203, 205

Ptilinopus arcanus, 285

Puffinus, 425

arvernensis, 424

auricularis, 112, 116, 118

pacificus chlororhynchus, 111 puffinus, 116

Pycnonotus goiavier goiavier, 285

Quail, Gambel, 409 Quigley, Ray, and Dixon, James B., photograph of Clark nutcracker, 442

Rabor, D. S., and Ripley, S. Dillon, birds from Canlaon Volcano in the highlands of Negros Island in the Philippines, 283

Rail, Clapper, 166 Rallus longirostris, 166

Rausch, Robert, and Williamson, Francis S. L., interspecific relations between goshawks and ravens, 165

Raven, 83, 88, 114, 115, 119, 165, 274, 282

Redstart, Painted, 83

Redwing, 376

Regulus calendula, 251

calendula cineraceus, 76, 389

satrapa, 9, 93, 450 satrapa olivaceus, 76

Rechnitzer, Andreas B., land birds at sea off southern California, 388; foraging habits and local movements of the wood ibis in San Diego County, California, 427

Rhabdornis inornatus rabori, 286, 288, 290

Rhinomyias gularis albigularis, 286

Rhinoptynx clamator, 73

Rhipidura cyaniceps, 289

cyanoceps albiventris, 286-288

Ripley, S. Dillon, and Rabor, D. S., birds from Canlaon Volcano in the highlands of Negros Island in the Philippines, 283

Rissa tridactyla, 213

Road-runner, 82

Robin, 79, 83, 172, 175, 235, 236, 240, 381

American, 251

British, 172, 175

Clay-colored, 387

English, 244

White-throated, 387

Russell, Ward C., and Miller, Alden H., distributional data on the birds of the White Mountains of California and Nevada, 75

Sabine, Winifred S., integrating mechanisms of winter flocks of juncos, 338

Salpinctes obsoletus, 90, 410

obsoletus exsul, 110, 115, 119

Sanderling, 119 Sandpiper, Least, 114, 119, 447

Spotted, 114, 119

Stilt, 447

Western, 114, 119, 447

Sapsucker, Williamson, 240

Yellow-bellied, 76

Sarcops calvus melanonotus, 286, 288, 291

calvus minor, 291

calvus similis, 291

Sarcoramphus papa, 389

Saxicola rubetra, 42

Sayornis nigricans, 250, 450

Scoter, American, 168, 448

Black, 448, 449 White-winged, 165

Seedeater, Variable, 230, 231

Yellow-bellied, 230-231

Selander, Robert K., additional record of the piñon jay in México, 239

Selander, Robert K., Pitelka, Frank A., and Alvarez del Toro, Miguel, a hybrid jay from Chiapas, México, 98

Selasphorus platycercus, 88

rufus, 125, 126, 128-132

sasin, 121-132, 250, 344, 345, 394-405 scintilla, 386

Shearwater, Revilla Gigedo, 112, 118

Wedge-tailed, 111, 112, 118 Shrike, Boreal, 295

Loggerhead, 122, 295

Sialia currucoides, 9

Sialia currucoides, 9

mexicana, 92

sialis, 93

Sibley, Charles G., a white-throated goldencrowned sparrow, 294

Siskin, Pine, 83, 90

Sitta canadensis, 9, 76, 93

carolinensis, 9, 92

frontalis aenochlamys, 286, 288

pygmaea, 9, 92

pygmaea melanotis, 76

Skutch, Alexander F., life history of the ruddy ground dove, 188

Solitaire, Black-faced, 387

Townsend, 76

Sparrow, Black-throated, 410

Brewer, 388

English, 32, 145, 152, 155, 158, 216, 251, 409

Fox, 448, 451, 452

Golden-crowned, 252, 294, 295

Harris, 240, 295

Rufous-collared, 388

Rufous-crowned, 83

Savannah, 30, 252

Song, 24-43, 252, 254-271

White-crowned, 45-50, 154, 155, 157, 160, 178, 206, 209, 224, 295, 357, 360

White-throated, 49, 75, 222-224, 227, 294, 295

Speotyto cunicularia, 241

cunicularia rostrata, 114, 119

Spheniscus mendiculus, 74

Sphyrapicus varius daggetti, 76

varius nuchalis, 76

Spilornis cheela panayensis, 285

Tattler, Wandering, 119

Spinus pinus, 90 psaltria, 90 tristis, 448 Spizella breweri, 388 Sporophila aurita, 230 nigricollis, 230 Squatarola squatarola, 447 Stachyris speciosa, 285, 288, 289 Starling, 17, 41, 145, 152, 155, 158, 208, 209, 216, 218, 360, 364, 376, 381, 446 Stellula calliope, 76, 250 Stercorarius parasiticus, 279 pomarinus, 213, 274, 383 Sterna aleutica, 235 antillarum, 429 fuscata crissalis, 119 paradisaea, 235 Stilt, Black-necked, 114, 119, 429, 447 Storer, Robert W., the fossil loon, Colymboides minutus, 413 Streptopelia bitorquata, 289 bitorquata dusumieri, 285 chinensis, 250 Strix aluco, 380 occidentalis, 88 varia, 273 Sturnus vulgaris, 17, 19, 41, 360, 364, 376, 446 Sula arvernensis, 424 dactylatra californica, 112, 118 leucogaster brewsteri, 113, 118 nebouxii, 112, 118 sula websteri, 113, 118 Sunbird, Flaming, 290 Sutton, George M., and Parmelee, David E., breeding of the snowy owl in southeastern Baffin Island, 273 Swallow, Barn, 114, 119 Cave, 452 Violet-green, 73, 83, 91

## T

Tachycineta thalassina, 91
Tailor-bird, Common, 289
Tanager, Blue, 189
Crimson-collared, 388
Golden-masked, 189
Hepatic, 83, 88, 91
Western, 83, 88, 92, 388
Tanagra musica elegantissima, 388
Tanagra nigro-cincta, 189

Swallow-tanager, 245

Whistling, 445

Swift, Black, 183-187

Chimney, 185

European, 185

Common, 37, 264

Synallaxis brachyura, 189

Swan, Trumpeter, 80, 444, 445

White-throated, 82, 89

Synthliboramphus antiquus, 163

Teal, Blue-winged, 118 Telmatodytes palustris plesius, 388 Tern, Aleutian, 235 Arctic, 235 Sooty, 119 White, 119 Tersina viridis, 245 Thalasseus, 429 Thornburg, Florence, scissor-tailed flycatcher in Idaho, 72; rose-breasted grosbeak in Arizona, 447 Thrasher, Brown, 166 California, 242, 251 Crissal, 83, 91 Socorro, 115, 119 Thraupis episcopus, 189 Thrush, Hermit, 83, 88, 90-92, 450 Island, 289 Swainson, 251 Thryomanes bewickii, 244 sissonii, 115, 116, 119 Thryothorus modestus modestus, 387 Titmouse, Bridled, 83, 86 Elegant, 289 Plain, 169-181 Tit, Blue, 179, 180, 244, 255 Great, 31, 36, 172, 175, 179, 180, 255, 257, Marsh, 173 Totanus flavipes, 238, 447 Towhee, Brown, 52, 56, 242, 244, 252 Red-eyed, 83, 91, 92, 116, 119 Spotted, 77, 78, 252, 448 Toxostoma cinereum, 117 dorsale, 411 redivivum, 242, 251 rufum, 166 Tree-Babbler, Rough-templed, 289 Trochilus moschitus, 122, 345 Troglodytes aedon, 42, 84, 92, 95, 96 aedon parkmanii, 95, 115 brunneicollis, 84, 96 brunneicollis cahooni, 95 brunneicollis vorhiesi, 95 tanneri, 115, 116, 119 Trogon aurantiiventris aurantiiventris, 387 elegans, 93 Trogon, Elegant, 93 Orange-bellied, 387

Tropic-bird, Red-billed, 112, 118

Turdus assimilis cnephosus, 387 grayi casius, 387

migratorius, 9, 236, 251, 381

poliocephalus nigrorum, 287, 288

Turacus persa, 438

obscurus, 287

Turnstone, Ruddy, 119

Turkey, 93

poliocephalus, 289

Tympanuchus, 327 Tyrannus melancholicus, 163 melancholicus occidentalis, 163

Verdin, 410 Vermivora celata, 93 pinus, 76 virginiae, 76, 88, 450 Vireo, Bell, 251 Hutton, 83 Solitary, 83, 89, 92, 251 Warbling, 83, 93, 251, .389 Vireo belli, 251 gilvus, 93, 251 gilvus swainsonii, 389 solitarius, 92, 251 Volatinia jacarina, 229 Vulture, Black, 389 King, 389 Turkey, 82, 90, 389

Wallmo, O. C., and Dixon, Keith L., some new bird records from Brewster County, Texas, Warbler, Arctic Willow, 289, 290, 292, 293 Audubon, 83, 92, 93, 242-245, 249, 251, 401 Bay-breasted, 116, 120 Black-throated Gray, 83, 87 Blue-winged, 76 Grace, 83, 89, 91, 92 Hermit, 251, 451 Mountain Leaf, 289 Olive, opp. 81, 83, 88, 91, 92 Orange-crowned, 93 Palm, 166 Pileolated, 292, 401 Red-faced, 83, 88 Tolmie, 76 Tropical Parula, 116, 119 Virginia, 76, 80, 83, 88, 92, 450, 451

Yellow, 251 Weber, Walter M., occurrence of the Aleutian tern and rustic bunting in the Aleutian Islands, 235

Wetmore, Alexander, a fossil guan from the Oligocene of South Dakota, 234; footprint of a bird from the Miocene of Louisiana, 389

Whip-poor-will, 71, 72, 82 White-eye, Mountain, 289, 290

Yellow, 289 Widgeon, European, 390

Williamson, Francis S. L., the molt and testis cycles of the Anna hummingbird, 342

Williamson, Francis S. L., and Rausch, Robert, interspecific relations between goshawks and ravens, 165

Willet, 119, 449

Wilson, Vanez T., and Young, Leo T., European widgeon and glaucous gull in Utah, 390

Wilsonia pusilla, 401 Woodpecker, Acorn, 83, 91 Arizona, 83, 86, 91

Hairy, 10, 83, 92 Ladder-backed, 83, 450

Lewis, 448 Pileated, 74

Wren, Bewick, 83, 87, 244 Brown-throated, 84, 94, 96, 97

Canyon, 83, 91 Clarion, 115, 119

House, 81-83, 84, 92, 93, 94-97

Long-billed Marsh, 388 Plain, 387

Rock, 83, 90, 110, 115, 119, 410

Socorro, 115, 119

Wren-tit, 176, 178, 179, 181, 242, 244, 251, 263

Xanthocephalus xanthocephalus, 448

Yellow-legs, Lesser, 238, 447 Yellow-throat, 76 Yokum, Charles F., and Mall, Rolf E., whitethroated sparrow in Humboldt County, California, 75

Young, Leo T., and Wilson, Vanez T., European widgeon and glaucous gull in Utah, 390

Zenaidura graysoni, 114, 116, 117, 119 macroura, 250, 389, 411, 446 macroura clarionensis, 114, 117, 119 Zonotrichia albicollis, 49, 50, 75, 222, 294, 295, 411 atricapilla, 252, 294 capensis costaricensis, 388 leucophrys, 50, 154, 178, 357

leucophrys gambeli, 45-50, 224, 293 leucophrys nuttalli, 45-50 leucophrys pugetensis, 45 Zosterops montana, 289, 290 montana diuatae, 290

montana finitima, 290 montana halconensis, 290 montana pectoralis, 286-288, 290 montana vulcani, 290 montana whiteheadi, 290 nigrorum, 289, 290 nigrorum nigrorum, 286, 288

palpebrosa, 290

palpebrosa siguijorensis, 290

